o. Dern vlerel Fr	RTMENT OF HOME nergency Manageme	ent Agency				20000	4_0 ###	<i>.</i>	
tional Fi	ood Insurance Prog	ram		Read the inst					rance Company Use:
					ERI I INI CI	CHAN I I O	<u>`</u>	Policy N	umber
1. Build	ding Owner's Name	RONALD H. Af	ND ANNA T. GOOD	NICH	Davida and Bo	w No A	, -	Compar	ry NAIC Number
2. Buik 50 LAN	OS END BLVD		Unit, Suite, and/or B	ldg. No.) or P.G.	MOURE BIN DO	A NO. W/		L	
City			ZIP Code 29572	to to to to to to	ectintion atc.)				
			mbers, Tax Parcel N 155-00-01-13						
—— A4. Buil	iding Use (e.g., Resi	dential, Non-Re	sidential, Addition, A	ccessory, etc.) <u>R</u>	<u>les</u>	Но	rizontal Datum:	_ □ N	IAD 1927 🔯 NAD 1983
			g. <u>78-45-58</u> ilding if the Certificat			insurance) .		
47 Quil	Mina Bianram Numt	ert .		•	√ 0 €0	e a buildir	ng with an attac	thed garag	1e :
NO EAR	a building with a CR	wispace or enc	losure(s):	1284 sq.ft	->	Courses	footspe of attai	ched garac	ge
-1	Courses footspe of C	rawisdace of er	1CIOSUTE(S)	1284 sq f	b)	No of o	vermanent flood	openings	in the attached garage
b)	No. of permanent fi enclosure(s) within	1.0 foot above a	adjacent grade	6		within 1	.0 foot above a et area of flood	ojacent gr openings i	in A9.b sqin
c)	Total net area of flo	od openings in .	AB.D	<u>1380</u> sq in	c) d)	Engine	ered flood oper	ings?	Yes No
d)	Engineered flood o		Yes No	INSURANCE I	RATE MAP (FIRM) II	NFORMATIO	N	
A ver	P Community Name			B2. County Nar			1	B3. State SC	
450104				HORRY			B8. Flood		ase Fiood Elevation(s) (Zor
	ap/Panel Number 15051C0569	B5. Suffix H	B6. FIRM Index Date 8-23-99	Effective	FIRM Panel e/Revised Dat 8-23-99	e	Zone(s) AE	A	O, use base flood depth) 15
		l		1		ı item 69.			
10 Inc	dicate the source of	the Rase Flood	Flevation (BFE) 080						
		(IIC D000 : :	C	An-minod	☐ Other (De	scribe)	_		
	☐ FIS Profile	⊠ FIRM		Bummec	L1 011101 1-1			be)	
€11. Inc	☐ FIS Profile	⊠ FIRM		VD 1020	III NAVD 198	88 🗆	Other (Descri	be)	∐ Yes ⊠ No
812. Is:	FIS Profile dicate elevation data the building located	⊠ FIRM		VD 1020	III NAVD 198	88 🗆	Other (Descri	be)	∐ Yes ⊠ No
812. Is:	☐ FIS Profile	☑ FIRM Im used for BFE in a Coastal Ba	☐ Community De E in Item B9: ☑ NG arrier Resources Sys	VD 1929 term (CBRS) area	NAVD 196 or Otherwise	88 🗆 Protected	Other (Descrit d Area (OPA)?		∏ Yes ⊠ No
812. Is:	FIS Profile dicate elevation data the building located	☑ FIRM Im used for BFE in a Coastal Ba		VD 1929 term (CBRS) area	NAVD 198 or Otherwise OPA	Protected	Other (Descri	RED)	
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IPORTANT: In these spaces,			16970-	E-a francisco	ce Company Use:
	copy the corresponding information from	Section A.	1-18-12	Policy Num	
uilding Street Address (Including Apt. 50 LANDS END BLVD.	, Unit, Suite, and/or Blog. No.) or P.U. Rouse and	1 BOX 190.	1 Asi		VAIC Number
ty MYRTLE BEACH State SC ZIF					
SECTION	D - SURVEYOR, ENGINEER, OR ARCHI	TECT CERTIF	ICATION (CO	ITINUED)	
nov both sides of this Elevation Cert	ificate for (1) community official, (2) insurance ag	ent/company, ar	nd (3) building ow	ner.	76 1401
comments WATER VALVE IN FROM 2e HVAC PLATFORM	NT OF LOT 3 IS 8.88 MSL RAILROAD SPIKE I	N POWER POL	E HAT KONT OF	201110	O MOE
HIS CERTIFICATE IS FOR THE EX	CLUSIVE USE OF THE PERSONS LISTED IN S	5-18-12	ND IS NONTRAN	SFERABLE.	
Signature /	4				Check here if attachments
SECTION E - BUILDING ELE	EVATION INFORMATION (SURVEY NOT F	REQUIRED) FO	OR ZONE AO	ND ZUNE	A (WITHOUT BY L)
and C. For Items E1-E4, use natural E1. Provide elevation information for grade (HAG) and the lowest ad a) Top of bottom floor (including b) Top of bottom floor (including E2. For Building Diagrams 8-9 with (elevation C2.b in the diagrams E3. Attached garage (top of slab) is E4. Top of platform of machinery a	g basement, crawspace, or enclosure) is go basement, crawspace, or enclosure) is permanent flood openings provided in Section A s. of the building is feet	to show whether the fet fet fet fet fet fet fet fet fet fe	the elevation is a meters meters get meters get meters get meters get meters meters	above or below above or above or above or of Instructions HAG.	w the highest adjacent below the HAG. below the LAG. s), the next higher floor ow the HAG.
ordinance? Yes No	ON F - PROPERTY OWNER (OR OWNER'S	REPRESENT	TATIVE) CERT	FICATION	
Property Owner's or Owner's Author	itements in Sections A, B, and E are correct to the ized Representative's Name City		State	ZIP	Code
	Date		Teleph	one	
Signature					
Commonete					
Comments			T		
CONSTRUCT					ei e <u>i atta</u>ç ısı <u>e</u>
	OLO HOLL	Rand (10h) (U)	nement ordinance	can complet	e Sections A, B, C (or E),
The local official who is authorized by and G of this Elevation Certificate. C. S1. The information in Section is authorized by law to cert.	SECTION G - COMMUNICATION OF THE PROPERTY OF T	needplain mana, theck the measu- een signed and didate of the ele- vithout a FEMA-in management	gement ordinance prement used in It I sealed by a licent vation data in the issued or commu- purposes.	can completens G8 and completens G8 and completens get surveyor Comments and completens get grant gran	e Sections A, B, C (or E), G9. , engineer, or architect wheat below.) FE) or Zone AO.
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he local official who is authorized by and G of this Elevation Certificate. Cities authorized by law to cert is authorized by law to	law or ordinance to administer the community of the applicable item(s) and sign colors. C was taken from other documentation that has being elevation information. (Indicate the source an eted Section E for a building located in Zone A (viltering G4-G9) is provided for community floodplain. G5. Date Permit Issued New Construction Substantial or (including basement) of the building:	incodplain manacheck the measure is gned and date of the elevithout a FEMA-in management of G6 Date	gement ordinance prement used in It I sealed by a licent vation data in the issued or commu- purposes.	e can completems G8 and of sed surveyor Comments a mity-issued Bf mpliance/Occurrents and the mpliance/Occurrents	e Sections A, B, C (or E), G9. , engineer, or architect wi rea below.) FE) or Zone AO.
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Certification of Engineered Flood Openings

In accordance with NFIP, FEMA TB 1-08, and ASCE/SEI 24-05

I hereby certify that the Crawl Space Door Systems flood vents 816CS, 1220CS, 1232CS, 1616CS, 1624CS, 1632CS, 2032CS, 2424CS, and 2436CS are designed in accordance with the requirements of the NFIP "Flood Insurance Manual" (2011) to provide automatic equalization of hydrostatic flood forces by allowing for the entry and exit of floodwaters, when properly installed and sized as set forth below. This certification follows the design requirements and specifications established in FEMA Technical Bulletin 1-08. "Openings in Foundation Walis and Walls of Enclosures Below Elevated Buildings in Special Flood Hazard Areas", and the ASCE Standard for "Flood Resistant Design and Construction" (ASCE/SEI 24-05).

Design Characteristics

Section 2.6.2.2 of ASCE 24 provides an equation to determine the required net area of engineered openings (A_o) for a given enclosed \underline{area} (A_a). This equation is based on the hydraulic formula for the flow rate across sharp edged orifices. I have utilized this equation to calculate 1) the respected flow rate through the individual openings between louvers; 2) the flow rate through the main frame opening in case the louver is blown out during a flood event; and 3) the flow rate of water flowing through fouver blades following hydraulic short tube theory. The ultimate maximum total enclosed area (A_e) that can be serviced by a single vent has then been determined by utilizing the lowest flow rate of the three assessed scenarios for each vent and is listed in Table 1.

These values are based on the following assumptions:

- In absence of reliable data, the rates of rise and fail have been assumed with 5 feet/hour:
- The (maximum) difference between the exterior and interior floodwater levels has been assumed with 1 foot during base flood conditions;
- A factor of safety of 5 has been assumed, which is consistent with design practices related to protection of life and property;
- The net area of openings (A_a) as provided by the manufacturer.

Installation Requirements and Limitations

This certification will be voided if the following installation requirements and limitations are not enforced:

- There shall be a minimum of two openings on different sides of each enclosed area:
- The bottom of each required opening shall be no more than 1ft above the adjacent ground level;

*)	Model	H×W [in]	A _១ (រក ²)	A. [ft ²]
F ,	816CS	8 x 16	105	205
	1Z20C5	12 x 20	235	500
	1232CS	12 x 32	305	645
	1616CS	16 x 16	180	395
	1624CS	16 x 24	310	670
	1632CS	15 x 32 ·	405	835
	2032CS	20 x 32	630	1240
	2424CS	24 x 24	570	1230
	2436CS	24 x 35	850	1765

Table 1 Maximal total enclosed area (A_c) that can be served by each individual model based on the given net area of engineered openings (A_a)

Ver. 7.0

- No temporary (e.g. during cold weather) or permanent solid cover may be placed into or over the flood vent that would block the automatic entry or exit of floodwaters at any time;
- Where analysis indicates rates of rise and fall greater than 5 ft/hr, the total enclosed area as given in Table 1 shall be reduced accordingly to account for the higher rates of rise and fall.

Identification of the Building and Installed Flood Vents

The flood vent models marked in Table 1*) are being installed at the following building: **Building Address**

Certifying D	esign Professional	A CARO	
Name	Frederick Allen House	HOUSE THE	SHAMMER THE PARTY OF THE PARTY
Title	President-House Engineering P.C.	ENGINEERING TE	100 100 100 100 100 100 100 100 100 100
Adaresc	P O Box 466, Kitty Hawk, NC 27949	No. 3900	No. 25541
Type of License	Professional Engineer	EDFAUTHCHIM	No. 25541
License #	26841 Sigr	saye 11011 -1/21	
issuing State	South Carolina	Judy 1/2/12	William CK & School
Spring 2012	T.		. Ver 20

Horry County Code Enforcement

1301 2nd Ave Suite 1D09 Conway, SC 29526



Phone: (843) 915-5090 (843) 205-5090

Fax: (843) 915-6090

MEMO OF REVIEW FOR CORRECTNESS AND COMPLETION

In accordance with this community's participation in the National Flood Insurance Program's Community Rating System, all FEMA Elevation Certificates must be correct and complete. The attached Certificate has some incorrect items which are noted here.

	SECTION A - PROPERTY INFORMATION							For Insurance	Company U	
	Al. Building Owner's Name Ronald + Awara Goods. CIT								Policy Number	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 250 Laws END FLAD.									Company NAIC Number	
City	// State	ZIP Code						<u> </u>		
A3. Proper	y PC+ Let Be ty Description (Lo	t and Block Number	rs, Tax Parcel Numb	er, Legal Descr	iption, etc	(.)				
		01-125				<u> </u>				
A5. Latitud A6. Attach	de/Longitude: Lat. 1 at least 2 photogra	Long aphs of the building	ntial, Addition, Acces if the Certificate is b			insurance.	Horizontal Datum:	☐ NAD 192	27 □ NAI	
	ng Diagram Numbe building with a cra	er wi space or enclosu	re(s), provide		ļ	A9, Forabu	ilding with an attach	ed garage, provide	: Atla	
a) So	quare footage of cra	awl space or enclos	ure(s)	so	ı fit	- al Sou	are footage of attach	ed garage	N /T+	
	•	ood openings in the ithin 1.0 foot above	•		1	b) No.	of permanent flood of within 1.0 foot above	openings in the atti	ached garag	
		od openings in A8.b		sq	in	******	il net area of flood of		NIA	
	gineered flood ope		s 🔲 No			d) Engi	neered flood opening	gs? □Yes	M No	
SECTION E	3 - FLOOD INSUR	ANCE RATE MAP (FIRM) INFORMATI	NC						
B1. NFIP C	Community Name &	& Community Num	ber	B2. County N	ame			B3. State		
								1 56 D 70		
B4. Map	/Panel Number	B5. Suffix	B6. FIRM Index Date		7. FIRM I tive/Revi		B8. Flood Zone(s)		d Elevation ase flood d	
11. Indicate 12. Is the be ☐Yes ☐No	elevation datum u	sed for BFE in Iten	Community Determ B9: NO Sources System (CBF	VD 1929	□ NAV erwise Pro	-	Other/Source: PA)?	_		
SECTION O	: - BUILDING ELE	VATION INFORMA	ATION (SURVEY RE	QUIRED)						
	elevations are base		Construction Drawi		☐ Bui	ding Under Co	nstruction*			
*A new E 2. Elevation Complete	truction Elevation Certificat ns – Zones A1-A30 e Items C2.a-h belo	te will be required v), AE, AH, A (with ow according to the	when construction of the BFE), VE, VI-V30, building diagram spe	the building is over the building is over the building in the building is over the building in the building is over the building in the building is over the building in the building in the building is over the building in the building is over the building in the build	complete. NR, AR/A N7.	, AR/AE, AR/A		VAO.		
	elevation datum i		tions in items a) thr	ough h) below	. N O	SVD 1929 🗌	NAVD 1988 🔲			
OMMEN	ITS: A9 I	nicomply	/ ₋ -							

All elevation certificates shall be maintained by the community and copies with the attached memo made available upon request.